

# Tying Energy Efficiency to Compensation and Performance Reviews

September 3, 2013 3:00 – 4:00 PM EDT



# **Agenda**

- Welcome, Introductions, and Overview
- Data Update and Certification Scorecard (Nicholas Stolatis TIAA-CREF)
- ▶ Linking Energy Efficiency to Performance-Based Compensation (Walt Brockway, Alcoa)
- ▶ HEI's Energy Looking Glass Dashboard (Bob Holesko, HEI Hotels)
- Additional Resources
- Question & Answer Session



# Introduction and Overview

- Many organizations offer a variety of incentives for meeting sales targets or other corporate goals
  - Recognition in annual reviews and compensation increases
  - Bonuses
  - Free vacations or other prizes
- Why not recognize employees for their role in achieving energy efficiency improvements and other sustainability goals?
  - Further establish efficiency as a core business strategy
- Many companies are already doing this!
  - Today, we'll show you how



# **Today's Presenters**

	Name	Organization
	Nicholas Stolatis	TIAA-CREF
	Walt Brockway	Alcoa
	Bob Holesko	HEI Hotels and Resorts
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# Data Update and Certification Scorecard

Nicholas Stolatis
TIAA-CREF





# Better Buildings Challenge Implementation Models

# ORGANIZATION TYPE

Commercial Property Management



### BARRIER

A lack of visibility into the energy and water usage of the third-party-managed assets

# SOLUTION

 Adding sustainability metrics to the existing property governance scorecard, part of a formal performance assessment of third-party property managers

# **▶ OUTCOME**

 TIAA-CREF can better understand resource costs, estimate savings associated with improvement projects, and verify that projected results are achieved







# TIAA-CREF's Model: Data Update and Certification Scorecard



# POLICIES

- Established energy and water usage tracking as a key priority
- Made energy and water efficiency achievements part of the property manager annual review process



# PROCESS

- Scorecards generated quarterly, based on review of data in a Portfolio Manager master account
- Energy and water tracking judged by how well data have been kept current
- Also tracking the number of ENERGY STAR-eligible buildings that have/have not applied for certification
- Variances allowed on a case-by-case basis
- Relative performance to peers communicated across all participating property management firms, to drive healthy competition.







# TIAA-CREF Global Real Estate Sustainability Initiative (GRESI)

Data Update and Certification Scorecard

As of Month XX, 20XX. Label points are based on data from QX 20XX.

ID#	Name	Portfolio	Average Adjusted Energy Points*	Average Adjusted Water Points*	Average Certification Points**	Utility Notes
0001 Sa	ample Property 1	Office				
0002 Sa	ample Property 2	Retail				
0003 Sa	ample Property 3	Office			NA	
0004 Sa	ample Property 4	MF				
0005 Sa	ample Property 5	Office				
0006 Sa	ample Property 6	MF			NA	
0007 Sa	ample Property 7	Office				
0008 Sa	ample Property 8	Office				
0009 Sa	ample Property 9	Office				
0010 Sa	ample Property 10	Office				







# TIAA-CREF's Model: Data Update and Certification Scorecard



# **MEASURING SUCCESS**

- Each quarter, individual properties receive scores that reflect their energy tracking, water tracking, and certification efforts
- Overall success of the initiative is measured by the percentage of TIAA-CREF's properties that are up-to-date in Portfolio Manager













# OUTCOMES

- Fewer than 6 months to update scorecard, secure buy-in, and launch program
- Percentage of buildings with current energy and water data has increased from 55% to 90% (energy) and 80% (water)
- Increased attention to benchmarking allows better reporting and analytics at the property and portfolio level, as well as more opportunities for property managers to document achievements and identify opportunities





# Linking Energy Efficiency to Performance-Based Compensation





# Better Buildings Challenge Implementation Models



# ORGANIZATION TYPE

Primary and fabricated aluminum manufacturer

### BARRIER

Energy performance improvement crowded out by other business priorities

### SOLUTION

 Link energy efficiency achievement to performance based compensation for Alcoa business leaders

# OUTCOME

 Alcoa businesses are increasing their focus on energy efficiency and steadily reducing energy intensity to meet long-term sustainability goals





# Environmental Focus Area – CO<sub>2</sub> and Energy

Issue	New 2030 Goal (from a baseline of 2005)	New 2020 Interim Goal
CO2 in Primary Operations	indirect) of Primary One by 30%	
Energy Intensity in Primary operations	Reduce 2005 Primary Ops energy intensity by 15%	10%
Energy Intensity in all other Businesses	Reduce 2005 energy Intensity by <b>30%</b> for all other businesses	20%







Corporate mandate to improve energy intensity

- Business / Plant energy goals set annually
  - Business reporting system in place -
    - Energy
    - Spend reduction

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- "Pull" for help to achieve goals
  - Execution tools deployed
    - Standard practices
    - Assessments
    - Energy Kaizens
    - Training
    - Technical assistance





# Alcoa's Playbook: Linking Energy Efficiency to Performance-Based Compensation



### **POLICIES**

- Implemented CEO-championed policy linking energy performance and compensation to improve corporate energy performance
- Performance based pay calculation for business leaders now includes sustainability metrics for energy efficiency, incentivizing employees to set and achieve energy reduction targets



### **PROCESS**

- Set corporate and business level energy targets Year on Year set in December
- Each business appoints an energy leader with direct responsibility for promoting initiatives and meeting targets at the plant level
- Business units are given autonomy to determine the extent to which energy efficiency performance will
  contribute to incentive pay of employees within that business.
- Set up energy spend reduction team to review initiatives monthly using a common project implementation tool
- Track progress through monthly energy intensity calculations communicated to energy and business leaders







# Alcoa's Playbook: Linking Energy Efficiency to Performance-Based Compensation



# **TOOLS & RESOURCES**

- Global energy database containing utility information from all invoices when received
- Stand-alone energy services group provides expert resources for identifying and executing energy savings
- Sustainability scorecards used to align targets with business strategy
- Business-developed roadmaps to lay out steps necessary year-by-year to realize long term objectives

### MEASURING SUCCESS

- Rigorous computation of energy intensity including baseline year level within each business
- Calculations reported to central database
- Overall success measured by achievement of reduction targets, progress communicated to all levels of management

### **OUTCOMES**

- Increased attention to energy saving projects with an estimated 50% increase in energy cost reduction activities
- In 2012, the Global Primary Products business reduced its total energy intensity 2.6% against its 2005 baseline; the Global Rolled Products business achieved a 14.4% decline compared to baseline; and Engineered Products and Solutions realized a 8.4% decrease







# GPP: Environmental & Sustainability Scorecard (reviewed monthly)

Energy Intensity
Reduction
(GJ/ton)



Fresh Water Use Intensity Meters<sup>3</sup>/ton



GHG Emission Intensity (mtCO2e/ton)



Landfilled Waste Reduction Absolute k tons



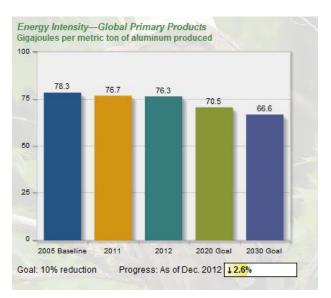
Key environmental initiatives (to 2020)

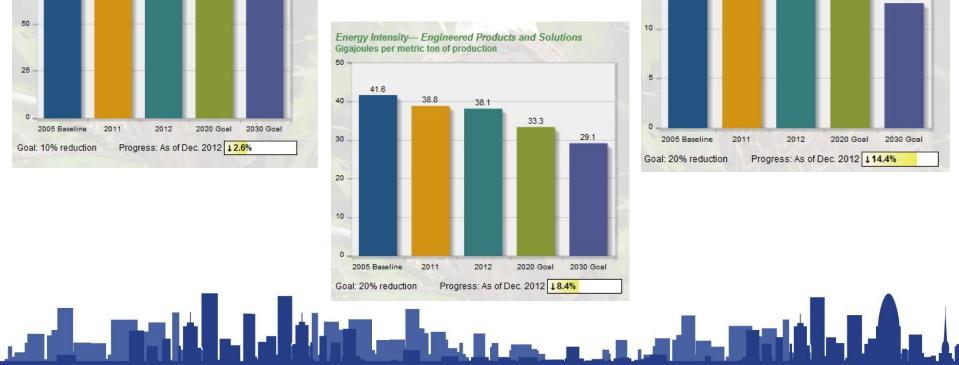


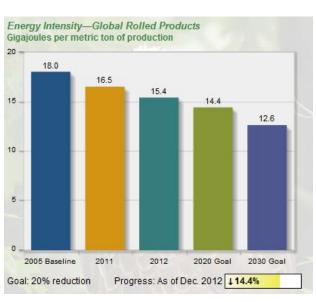




# **Progress Toward 2020 Goals**























# **HEI's Energy Looking Glass Dashboard**

Bob Holesko
HEI Hotels and Resorts





# Better Buildings Challenge Implementation Models



# ORGANIZATION TYPE

Hospitality

### BARRIER

Lack of centralized information on energy, other key data

# SOLUTION

Energy management tracking tool

# OUTCOME

HEI is now able to recognize areas for improvement and realize savings





**POLICIES** 





# HEI's Model: Energy Looking Glass Dashboard

- Created tool to track impacts of energy efficiency initiatives and participation in best practices at each hotel
- Compared energy usage trends to changes in hotel occupancy rate and weather
- Made to be Excel based, centralized, and user-friendly



### PROCESS

- Outlined data that must be collected and updated regularly
- Energy use, weather, occupancy rate, and capital project dates used as variables in regression analysis to establish daily consumption thresholds
- Staff trained through tutorials and BUZZ committees to coordinate and share ideas
- Annual tool revision process established to incorporate feedback



### OUTREACH

- Interactive tool design that is highly visual and expresses energy savings in terms of environmental impact
- Incentivized staff through TV give away program and quarterly recognition gift card awards
- Executive level recognition of staff through letters of appreciation, features on HEI website, and photos on Wall of Fame







# **HEI's Model: Energy Looking Glass Dashboard**



# **MEASURING SUCCESS**

- Tool displays daily energy consumption as percentage difference and dollars saved or spent and provides month to date/previous year comparisons
- \$9 million in energy projects completed between 2005-2008 delivered a 2.79 ROI
- Over \$3 million saved per year
- 14.5% energy savings during this period

# **OUTCOMES**

- Strengthened and supported management commitment to energy program
- Freed up capital funds for additional energy efficiency measures
- Tool being "Reviewed, Revised, & Refreshed" annually with Chief Engineer input





# Hilton Long Beach

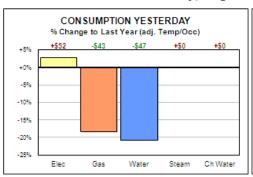
ENERGY Looking Glass® (v30.1)

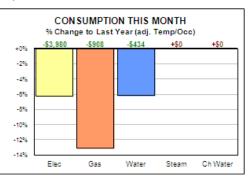
### YOUR PROPERTY July 31, 2013 Cooling Degree Days 5.0 Heating Degree Days AWARD 2013 OR - Yesterday PM 398 PARTNER OF THE YEAR OR - Yesterday AM 398 Sustained Excellence **Energy Conservation Committee** Property Characteristics 406,634 Yr Built: 1991 Jeff-Chief Nancy-HSKP Orig Rating: 29 (10/08) RED Manny-BQT Curr Rating: 61 (7/12) SILVER Anwar-Chef Top 50% of peer group

Approx 2010 Carbon Footprint (metric tons of CO2 equivalent):

### DAILY ENERGY CONSUMPTION REPORT

Thursday, August 01, 2013





### July: Cooling Peak

### YOUR ENERGY CONSUMPTION

	YESTERDAY		LAST YEAR (adj.")	CHANGE		
UTILITY (unit)	Units Consumed	Est Cost	Units Consumed	Units	% Chg	Est Cost
ELECTRICITY (kWh)	14,144	\$1,876	13,751	+393	+2.9%	+\$52
GAS (therm)	251	\$191	308	-56	-18.3%	-\$43
WATER (kGal)	41.1	\$176	52.0	-10.9	-20.9%	-\$47
STEAM (therm)	0	\$0	0	+0	+0.0%	+\$0
CHILLED WATER (kWh)	0	\$0	0	+0	+0.0%	+\$0
TOTAL (MM BTU)		\$2,243			-1.7%	-\$37

		LAST YEAR (adj.")			
Units Consumed	Est Cost	Units Consumed	Units	% Chg	Est Cost
450,064	\$59,686	480,077	-30,013	-6.3%	-\$3,980
7,951	\$6,026	9,148	-1,198	-13.1%	-\$908
1,531.3	\$6,558	1,632.6	-101.3	-6.2%	<b>-\$</b> 434
0	\$0	0	+0	+0.0%	+\$0
0	\$0	0	+0	+0.0%	+\$0
	\$72,270			-7.4%	-\$5,322

EXP MONTH-END VAR TO BUDGET				
<b>\$</b>	Units			
-\$18,000	-20,751			
+\$1,137	-819			
+\$124	-10			
+\$0	0			
+\$0	0			
-\$16,739				











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HEI's "Going Green Wall of Fame"



# **Additional Resources**



# **BBC Implementation Models**

- ► TIAA-CREF: <u>Data Update and Certification Scorecard</u>
- ► Alcoa: Linking Energy Efficiency to Performance-Based Compensation
- ▶ HEI Hotels & Resorts: Energy Looking Glass Dashboard



# **Question & Answer Session**



# Join Us for Upcoming Webinars

Speaking the CFO Language: Building the Case for Energy Efficiency with Financial Decision-makers

Tuesday, October 1, 2013

3:00-4:00 PM EST

Wendell Brase, Vice Chancellor for Administrative and Business Services, University of California at Irvine
Marcy Schaefer, Sustainability Project Manager, Kohl's
Brenna Walraven, Head of Property Operations, USAA Real Estate

Getting approval for energy efficiency measures can sometimes be the most challenging aspect of the project. Join <u>Better Buildings Challenge</u> partners USAA Real Estate, University of California at Irvine, and Kohl's as they share their best practices for communicating the value of building energy efficiency projects and working with financial decision-makers to make those projects happen.

Register at: <a href="https://www4.gotomeeting.com/register/712622719">https://www4.gotomeeting.com/register/712622719</a>

Coming in November: "Fight Amongst Yourselves: Intra-organization Energy Efficiency Competitions"



# **Additional Questions? Feel Free to Contact Us**

Today's Presenters	Nick Stolatis TIAA-CREF nstolati@tiaa-cref.org  Bob He HEI Hotels bholesko@h	& Resorts		
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